

REMARKS

Applicants request entry of this amendment in adherence with 37 C.F.R. §§1.821 to 1.825. This amendment is accompanied by a floppy disk containing the above named sequences, SEQ ID NOS:1-21, in computer readable form, and a paper copy of the sequence information which has been printed from the floppy disk.

The information contained in the computer readable disk was prepared through the use of the software program "PatentIn" and is identical to that of the paper copy. This amendment contains no new matter.

Attached hereto is a marked-up version of the changes made to the Specification by the current Amendment. The attached pages are captioned "VERSION WITH MARKINGS TO SHOW CHANGES MADE."

If the Examiner believes a telephone conference would expedite prosecution of this application, please telephone the undersigned at 415-576-0200.

Respectfully submitted,



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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Specification:

Paragraph beginning at line 26 of page 4 has been amended as follows:

Figure 4 shows dominant negative mutants generated for target validation studies. hMRE11 = SEQ ID NO:3; SCNMRE11 = SEQ ID NO:4; consensus peptides = SEQ ID NOS:5-18.

Paragraph beginning at line 2 of page 6 has been amended as follows:

Figure 29 shows an oligonucleotide duplex substrate (SEQ ID NOS:19 and 20) for MRE11 plate-based assay.

Paragraph beginning at line 9 of page 39 has been amended as follows:

Common linkers such as peptides, polyethers, and the like can also serve as tags, and include polypeptide sequences, such as poly Gly gly sequences of between about 5 and 200 amino acids (SEQ ID NO:21). Such flexible linkers are known to persons of skill in the art. For example, poly(ethylene glycol) ~~poly(etholyno glyeol)~~ linkers are available from Shearwater Polymers, Inc., Huntsville, Alabama. These linkers optionally have amide linkages, sulfhydryl linkages, or heterofunctional linkages.